

EXTREME LIFE LASER DIODE TECHNOLOGY



**REMOTE 3104P
REMOTE 5104P
Airborne Particle Counters**

Incorporating the Extreme Life Laser Diode Technology for a >20-year Mean Time to Failure (MTTF), Lighthouse designed the **REMOTE 3104P** and **5104P** airborne particle counters for continuous trouble-free operation.

With sensitivities of 0.3 and 0.5 micron, respectively, at a flow rate of 1 CFM (28.3 LPM), the **REMOTE 3104P** and **5104P** provide real-time continuous data collection at a cost-effective price per point. Using an internal vacuum source, the compact **REMOTE 3104P** and **5104P** particle counters can be installed where space is at a premium.

The **REMOTE 3104P** and **5104P** integrate seamlessly into large facility monitoring and management systems by leveraging their Ethernet, RS-485 MODBUS or Serial USB ports. Transferring up to 6 channels of simultaneous particle count data is fast and easy for these instruments.

**Designed and built by
Lighthouse - a name you can trust.**

Lighthouse is an ISO 9001:2008 Registered Company.

www.golighthouse.com

Features:

- ★ REMOTE 3104P: 0.3 - 25.0µm Range
- ★ REMOTE 5104P: 0.5 - 25.0µm Range
- ★ 1.0 CFM (28.3 LPM) Flow Rate with Internal Pump
- ★ Up to 6 Channels of Simultaneous Data
- ★ All Models Meet JIS Standards
- ★ Stainless Steel Enclosure
- ★ Up to Four 4-20 mA Inputs (30 mW)
- ★ LED Status Indicators
- ★ External Alarm Connector
- ★ Ethernet, RS-485 Modbus and Serial USB ports
- ★ Facility Monitoring System Interface
- ★ Flow-controlled Internal Vacuum Pump
- ★ >20 Year Mean Time To Failure Reliability

Benefits:

- ★ 2 Year Warranty
- ★ Installs in Limited Space
- ★ Cost Effective Price per Point
- ★ Proven Data Integrity
- ★ Proven Reliability
- ★ Continuous Real-Time Data
- ★ Easy System Integration
- ★ International Support
- ★ Low Cost of Ownership



Internal Vacuum Pump



Direct Mount Isokinetic Probe



Status LEDs

Multiple Communication Ports and Protocols



4-20mA Inputs



Specifications:

	3104P	5104P
Size Range:	0.3 - 25.0 μm	0.5 - 25.0 μm
Channel Sizes:	Standard: 0.3, 0.5, 1.0, 5.0 μm	Standard: 0.5, 1.0, 5.0, 10.0 μm
Counting Efficiency:	50% @ 0.3 μm ; 100% for particles > 0.45 μm (per JIS)	50% @ 0.5 μm ; 100% for particles > 0.75 μm (per JIS)

Additional channels and channel sizes are available - please contact your Sales Engineer for information regarding these options.

Flow Rate:	1.0 CFM (28.3 LPM)
Laser Source:	Laser Diode
Zero Count Level:	<1 count / 5 minutes (per JIS); Zero Count with Vibration: 0.02g ² /Hz from 8-66 Hz
Concentration Limits:	500,000 Particles / ft ³ @ 5% Coincidence Loss
Calibration:	NIST Traceable
Vacuum Requirements:	Internal Vacuum Pump
Air Flow:	Internally Monitored and Controlled
Communication Modes:	Ethernet, RS-485 MODBUS, Serial USB
LED Indicators:	Power, Flow, Service, Sampling
Data Storage:	3,000 Samples
Connectors:	2 RJ45, 2 RJ12 and one USB 'B'
Supporting Software:	LMS XChange; Lighthouse Monitoring System; LMS Express, Express RT and RT+; LMSNet
Up to Four 4-20 mA Inputs:	Can be used with the Lighthouse standard 4-20 mA Temperature/Relative Humidity, Air Velocity or Differential Pressure Probes or any other 4-20 mA device
External Alarm Output:	Normally Open Dry Contact Rated 0-60 V AC/DC 1 Amp
Enclosure:	Stainless Steel
Power:	24 VDC
Dimensions:	9.5"(l) x 6.5"(w) x 8.51"(h) [24.13 x 16.51 x 21.62 cm]
Weight:	12.33 lbs (5.59 kg)

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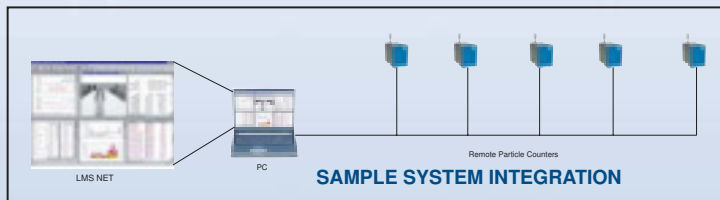
Environmental Conditions:

Operating: 50°F to 104°F (10°C to 40°C) / 20% to 95% non-condensing
Storage: 14°F to 122°F (-10°C to 50°C) / Up to 98% non-condensing

Accessories:

Included: Operating Manual on CD; LMS XChange; Power Supply; Power Cord

Optional: Printed Operating Manual; REMOTE Display; REMOTE Display 10-foot Extension Cable; Network Adapter; Wireless Network Adapter; Isokinetic Sampling Probe; Sample Tubing; Data Cabling; Purge Filter; Temperature/Relative Humidity Probe; Air Velocity Probe; Differential Pressure Probe; RS-232 Interface Cable and Adapter; High Pressure Diffuser (except 2014P); LMS Express, Express RT, RT+ and LMSNet software



Manufactured by:



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